

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Kindly cancel claim 1 and substitute the following new claims therefor.

2. (New) A color changer assembly, comprising:

a housing;

a first color changing scroll, coupled to said housing, and including first and second color changing rollers, and a first color changing plastic material, said first color changing plastic material formed of a material which is clear in its center, and has varying saturations of color at each end area, where a first end has a varying saturation of a first primary color, and a second end has a varying saturation of a second primary color;

a second color changing scroll, coupled to said housing, and including third and fourth color changing rollers, and a second color changing plastic material, where said second color changing plastic material is formed of a material which is clear in its center, and has varying saturations of color at each end, where a first end of said second color changing scroll has a

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

varying saturation of said first primary color, and a second end of said second color changing scroll has a varying saturation of a third primary color;

a first scroll moving motor assembly coupled to said housing, and which moves said first and second color changing rollers to place said first color changing plastic material in a first location; and

a second scroll moving motor assembly, coupled to said housing, and which moves said third and fourth color changing rollers to place said second color changing plastic material in a first location.

3. (New) A Color changing assembly as in claim 2, further comprising, a fan assembly, coupled to and extending into said housing.

4. (New) An assembly as in claim 2, where a surface of said first color changing scroll is substantially parallel to a surface of said second color changing scroll, at an area where light passes therethrough.

5. (New) An assembly as in claim 4, wherein said surface of said first color changing scroll and said surface of said

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

second color changing scroll are each substantially perpendicular to a direction of transmitted light.

6. (New) An assembly as in claim 2, wherein said first scroll moving motor assembly and said second scroll moving motor assembly each comprise a belt which is commonly connected to each of said color changing rollers, and a part which rotates said belt to rotate said rollers.

7. (New) An assembly as in claim 2, wherein said first primary color is magenta, said second primary color is yellow, and said third primary color is cyan.

8. (New) An assembly as in claim 2, wherein each of said first and second color changing plastic material includes color changing ink at areas near each of its first and second ends, and a thickness of said ink varies along a longitudinal length from its center towards its end.

9. (New) A color changer assembly, comprising:  
a housing;  
a first color changing means for changing color of light that is passed therethrough, coupled to said housing, and

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

including first and second color changing rollers, and a first color changing plastic material, said first color changing plastic material formed of a material which is clear in its center, and has varying saturations of color at each end, where a first end has a varying saturation of a first color, and a second end has a varying saturation of a second primary color;

a second color changing means, coupled to said housing, and including third and fourth color changing rollers, and a second color changing plastic material, where said second color changing plastic material is formed of a material which is clear in its center, and has varying saturations of color at each end, where a first end of said second color changing scroll has a varying saturation of said first color, and a second end of said second color changing scroll has a varying saturation of a third primary color;

a first scroll moving motor means coupled to said housing, for moving said first and second color changing rollers to place said first color changing plastic material in a first location; and

a second scroll moving motor means, coupled to said housing, for moving said third and fourth color changing rollers to place said second color changing plastic material in a first location.

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

10. (New) A Color changing assembly as in claim 9, further comprising, a fan , coupled to and extending into said housing.

11. (New) An assembly as in claim 9, where a surface of said first color changing scroll is substantially parallel to a surface of said second color changing scroll, at an area where light passes therethrough.

12. (New) An assembly as in claim 11, wherein said surface of said first color changing scroll and said surface of said second color changing scroll are each substantially perpendicular to a direction of transmitted light.

13. (New) An assembly as in claim 9, wherein said first scroll moving motor assembly and said second scroll moving motor assembly each comprise a belt which is commonly connected to each of said color changing rollers, and a part which rotates said belt to rotates said square rollers.

14. (New) An assembly as in claim 9, wherein said first primary color is magenta, said second primary color is yellow, and said third primary color is cyan.

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

15. (New) An assembly as in claim 9, wherein each of said first and second color changing plastic material includes color changing ink at each of its first and second ends, and a thickness of said ink varies along a longitudinal length from its center towards its end.

16. (New) A method, comprising:

moving a first color changing material to one of a plurality of positions, where a plurality of different positions of the first color changing material define a plurality of different colors of light that will be passed therethrough, where the first color changing material has a first area extending from an area near a first end of its longitudinal length to a first part near a middle of its longitudinal length, which has varying thickness of ink defining varying saturation of a first primary color, a second area extending from said first part to a second part near said middle, where said material has no ink, and is clear, and a second area extending from said second part to an area near a second end of its longitudinal length, which has varying thickness of ink defining varying saturation of a second primary color;

moving a second color changing material to one of a plurality of positions, where the different positions of the

Application Serial No. 10/782,662  
Attorney's Docket No.: 07319-003006

first color changing material define different colors of light that will be passed therethrough, where the second color changing material has a first area extending from an area near a first end of its longitudinal length to a first part near a middle of its longitudinal length, which has varying thickness of ink defining varying saturation of said first primary color, a second area extending from said first part, to a second part near said middle, where said material has no ink, and is clear, and a second area extending from said second part to an area near a second end of its longitudinal length, which has varying thickness of ink defining varying saturation of a third primary color; and

passing the light beam through an area that passes through said one position of said first color changing material and said one position of said second color changing material.

17. (New) A method as in claim 16, wherein said passing the light beam comprises projecting the light beam at an angle which is substantially perpendicular to a surface of both of said first and second areas.

Application Serial No. 10/782,662  
Attorney's Docket No.:07319-003006

18. (New) A method as in claim 16, wherein said moving comprises moving first and second scrolls by substantially the same amount using the same moving mechanism.

19. (New) A method as in claim 16, further comprising controlling the position of the color changing material to obtain the desired color light.